

OIST Mini Symposium

“Current Developments in Three-Dimensional Biological Electron Microscopy”

Thursday, May 7 - Saturday, May 9, 2015
OIST Seaside House, Onna Village, Okinawa, Japan

Organizer

Matthias Wolf

Molecular Cryo-Electron Microscopy Unit, OIST

Sponsor

Okinawa Institute of Science and Technology Graduate University

Co-Sponsor

FEI Japan

TOMY OKINAWA NOVO SCIENCE CO.,LTD.



**Thursday, May 7**

- 9:00 - Pick up at the hotel
- 9:15 - 9:30 Welcome and Introduction by the organizer
- 9:30 - 10:30 **Masahide Kikkawa**, Graduate School of Medicine, The University of Tokyo
"A 96-nm molecular ruler of eukaryotic flagella"
- 10:30 - 10:45 *Coffee break (foyer)*
- 10:45 - 11:45 **Naoko Mizuno**, Max Planck Institute of Biochemistry
"Visualization of macromolecular assemblies in cellular trafficking"
- 11:45 - 12:00 Poster: **Chun-Hsiung Wang**, Institute of Chemistry, Academia Sinica
"Towards near atomic reconstruction of DGNNV by mitigating drift-induced blurring from a 201 kV cryo-EM"
- 12:00 - 13:30 *Lunch (3rd floor)*
- 13:30 - 14:30 **Sharon Wolf**, Weizmann Institute of Science
"Cryo-scanning transmission electron tomography (CSTET) of intact, vitrified prokaryotic and eukaryotic cells provides simultaneous morphological and analytic information"
- 14:30 - 15:30 **Kazuhiro Aoyama**, FEI company Japan ltd, / Osaka University
"Cryo-STEM Tomography for 3D Analysis of Cell Structure"
Ryusuke Kuwahara, Osaka University
"3D structure analysis of cytoskeleton by using Cryo-STEM tomography"
- 15:30 - 15:45 *Coffee break (foyer)*
- 15:45 - 16:45 **Ariane Briegel**, California Institute of Technology
"Combining correlative cryotechniques, high throughput cryotomography and sub-volume averaging to understand structure and function of bacterial nanomachines"
- 16:45 - 17:45 **Xueming Li**, School of Life Sciences, Tsinghua University
"To atomic resolution CryoEM: Method and application"

18:00 - 19:30 *Dinner (Sushi Night) at 3rd floor*



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Friday, May 8

- 9:00 - Pick up at the hotel
- 9:15 - 10:15 **Tsumoru Shintake** (OIST)
"R&D on Holographic Electron Microscope for Macromolecule Bio-samples"
- 10:15 - 10:30 *Coffee break (foyer)*
- 10:30 - 11:30 **Koji Yonekura**, Biostructural Mechanism Laboratory, RIKEN
"Electron crystallography of 3D protein crystals: atomic model with charges"
- 11:30 - 12:15 **Matthias Wolf** (OIST)
"Automation and Infrastructure of Biological EM at OIST"
- 12:15 - 12:30 Bus to OIST Main Campus
- 12:30 - 12:45 Generic OIST tour
- 12:45 - 13:30 *Lunch (Center Court, OIST Main Campus, Level C)*
- 13:30 - 13:50 Lab Tour (Shintake Unit)
- 13:50 - 15:05 Lab Tour (EM Facility)
- 15:05 - 15:15 Group photo (Center Court or Sky Walk)
- 15:15 - 15:30 Bus to Seaside House
- 15:30 - 15:45 *Coffee break (foyer)*
- 15:45 - 16:45 **Yao Cong**, National Center for Protein Science • Shanghai, Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences
"Structural basis for recognition of human enterovirus 71 by a broadly neutralizing monoclonal antibody revealed by cryo-EM"
- 16:45 - 17:45 **Weihau Chang**, Institute of Chemistry, Academia Sinica
"Pushing DGNNV virus to near atomic resolution with a common cryo-EM equipped with DDD camera"
- 18:00 - 19:30 *Buffet Dinner at 3rd floor*



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Saturday, May 9

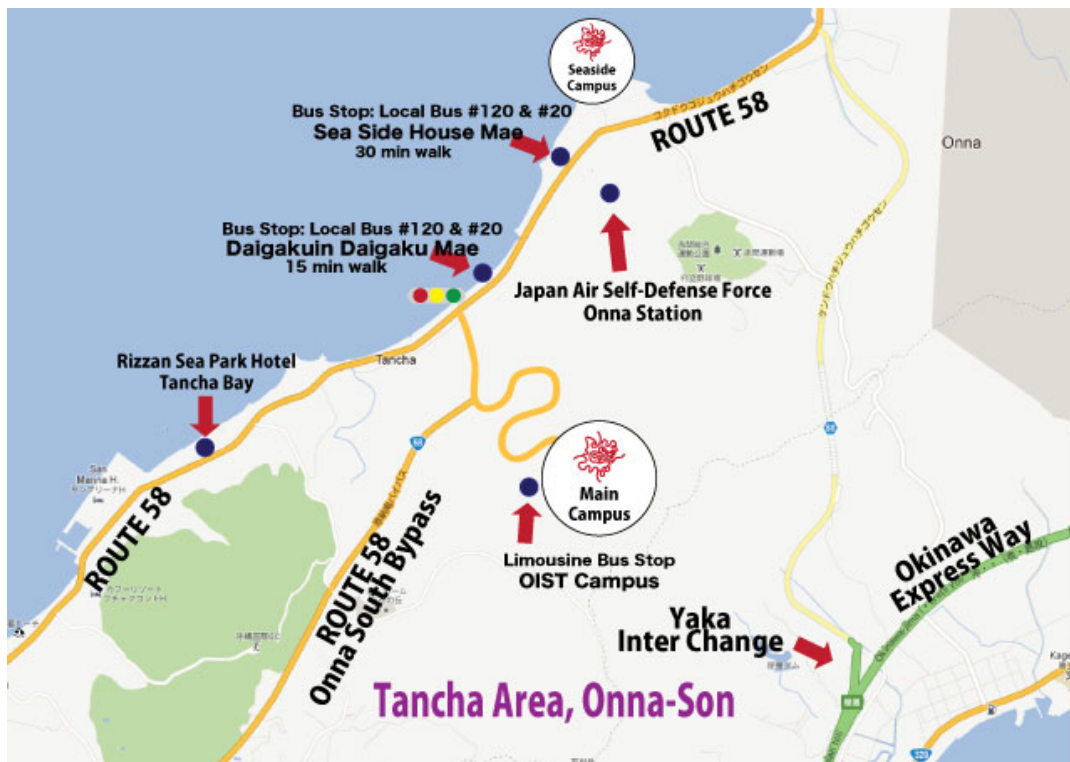
9:00 -	Pick up at the hotel
9:15 - 10:15	Kazuyoshi Murata , National Institute for Physiological Sciences (NIPS) "Structural Analysis of A Virus Infection using Single Particle Cryo-electron Tomography"
10:15 - 10:30	<i>Coffee break (foyer)</i>
10:30 - 11:30	Kato Takayuki , Graduated school of frontier biosciences, Osaka University "Structural analysis of Flagella motor and development of the new cryoEM for single particle image analysis"
11:35 - 13:00	Bus to Aquarium, Bento lunch on bus
13:00 - 15:00	Churaumi Aquarium
15:00 - 15:30	Bus to Okashigoten
15:30 - 16:00	Souvenir shopping at Okashigoten
16:00 - 16:45	Bus to hotel
16:45 - 17:45	<i>Time to refresh</i>
17:45 - 17:55	Bus (or Taxi) to Seaside house
18:00 - 19:30	<i>Banquet at 3rd floor</i>



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OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

Area Map:



Main Campus:

1919-1 Tancha, Onna-son, Kunigami, Okinawa 904-0495 Japan

Seaside House:

7542 Onna, Onna-Son, Kunigami, Okinawa 904-0411 Japan

Accommodation: Rizzan Sea-Park Hotel

1496 Tancha, Onna-son, Kunigami, Okinawa 904-0496 Japan

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